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File RFD
9 Sep 64

25X1A

4 September 1964

MEMORANDUM FOR: Assistant for Photographic Analysis, NPIC

THROUGH : Chief, Industrial Branch
Chief, Scientific & Technical Division

SUBJECT : Trip Report [REDACTED]

REFERENCE : FID Memo OSS-272/64 [REDACTED]

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1. On 1-2 September 1964, I visited the facilities of [REDACTED]. The purpose of the trip was to prepare operating procedures for [REDACTED] Scale Detector. As a by-product, a preliminary evaluation of the instrument for PAG operations was performed.

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2. A rough draft of the proposed operating procedures was prepared and checked with a new operator. A finished set of procedures will be written by [REDACTED] of FID and reviewed by me before the instrument is available for operational use.

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3. The purpose of the Change Detector is to highlight ground changes between photographs taken on different dates. Both photographs are scanned electronically and their images are shown on two TV monitors.

4. The instrument is designed for 70 mm roll film. Chips can be used by splicing leader on each end. The device can accommodate the following differences between the photographs being compared: 5 deg in tip, 5 deg in tilt, 1.9:1 differences in scale and 180 degrees in orientation. In addition, contrast differences between the photographs can be eliminated. Options exist for eliminating tones below a point on the gray scale (shadows) and above a second point (clouds). The operator can vary these rejection points.


5. The Change Detector appears to have some potential use for PAG in detecting changes within limited areas. Its most serious limitations are the narrow accommodation of differences in tilt in the prototype, and the fact that differences in perspective or in light reflections caused by varying sun angles appear as changes in the imagery. Over limited areas the tilt limits could be extended by using the scale difference adjustment.

? the machine
cannot help
doing this.
RFD

Declass Review by NIMA / DoD

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6. The cloud and shadow reject controls were not operable so their effectiveness could not be noted.

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